

November 1, 2016

Environmental Protection Agency Region 5
Air and Radiation Division
Air Programs Branch (AR-18J)
Air Permits Section
77 West Jackson Boulevard
Chicago, IL 60604

Re: Request to Remove Annual NOx Testing Permit Requirements
Permit Nos. PSD-ML-2711500031-2010-02 and V-ML-2711500031-2016-01

To Whom It May Concern:

Grand Casino Hinckley (GCH), located in Hinckley, Pine County, Minnesota has recently undergone the renewal of their Part 71 Air Permit. While discussing potential comments on the draft permit with Paymon Danesh and Mike Langman in a phone call on September 21, 2016, GCH explained that the use of a portable electrochemical analyzer for measuring NOx is producing unreliable results. Mr. Langman suggested that USEPA would be open to considering a request from GCH to remove these testing requirements provided adequate justification could be made. Such a request is the subject of this submittal.

Background to NOx Testing Permit Requirements

On 11/10/2002, PSD permit PSD-ML-R50005-02-01 authorized the construction of three diesel-fired Caterpillar 3516B engines and three 1,825 kW generators.

- The permit imposed short-term NOx limits of 37.44 lb/hr and 6.55 g/bhp-hr for each engine.
- The permit imposed an initial <u>performance</u> test and periodic <u>performance</u> tests every three years for each engine to demonstrate compliance with these limits using Methods 7E and 17.
- The permit imposed <u>annual</u> testing using a portable emissions analyzer (during the calendar years in which a <u>performance</u> test is not required) for each engine to demonstrate compliance with these limits.
- The engines (EU001, EU002 and EU003) were installed on 12/4/2004.

On 12/30/2010, PSD permit PSD-ML-2711500031-2010-02 was issued that reduced the frequency of the periodic <u>performance</u> testing from once every three years to once every five years.

Also on 12/30/2010, Title V permit V-ML-2711500031-2010-01 was issued that authorized operation of the facility and incorporated the NOx emission limits and testing requirements from PSD permit PSD-ML-2711500031-2010-02.

GCH's Title V permit was renewed on 10/20/2016 as V-ML-2711500031-2016-01. The permit reverts the frequency of the periodic <u>performance</u> testing from once every five years back to once every three years. This makes the NOx performance testing on the same schedule as the newly applicable CO testing requirements that were imposed by 40 CFR 63, subpart ZZZZ, §63.6615.

Historical NOx Testing Results

Since the engines were first installed in 2004, there have been four <u>performance</u> tests and eight <u>annual</u> tests. These are documented in Table 1 and Figures 1 through 4, attached.

The data confirms the statement made in Section 6.d of the Statement of Basis for permit V-ML-2711500031-2016-01 that GCH's <u>annual</u> testing using the portable electrochemical analyzer has not been able to consistently demonstrate compliance with the <u>g/bhp-hr</u> NOx emission limits for EU001, EU002, and EU003 (see Figure 3). However, the <u>annual</u> testing has consistently demonstrated compliance with the <u>lb/hr</u> NOx limits.

Since the <u>performance</u> testing has always demonstrated compliance with both the lb/hr and the g/bhp-hr NOx limits, GCH requests that the <u>annual</u> testing requirement be removed from permit PSD-ML-2711500031-2010-02 (and subsequently permit V-ML-2711500031-2016-01) and that compliance be demonstrated solely via the more rigorous <u>performance</u> testing which, with the issuance of permit V-ML-2711500031-2016-01, is required once every three years.

Finally, as instructed by Paymon Danesh, please find attached Forms 5900-79 and 5900-02 in support of this submittal.

If you have any questions regarding this request, please contact me at (320) 384-4907, or bkalk@grcasinos.com. Paul Taylor at Barr Engineering Co. may also be contacted at (952) 832-2671 or ptaylor@barr.com.

Sincerely,

Brad Kalk

My Kola

Vice President of Facilities Grand Casino Hinckley

Encl. Table 1: NOx Stack Testing Results

Figure 1: NOx (lb/hr) - Annual Tests

Figure 2: NOx (lb/hr) - Performance Tests

Figure 3: NOx (g/bhp-hr) - Annual Tests

Figure 4: NOx (g/bhp-hr) - Performance Tests

EPA Form 5900-79: General Information and Summary (GIS)

EPA Form 5900-02: Certification of Truth, Accuracy, and Completeness (CTAC)

Paymon Danesh, USEPA Region V (via e-mail)
 Mike Langman, USEPA Region V (via e-mail)
 Paul Taylor, Barr Engineering Co. (via e-mail)

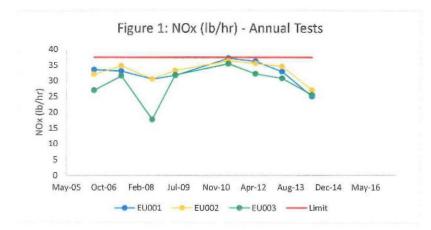
Table 1: NOx Stack Testing Results

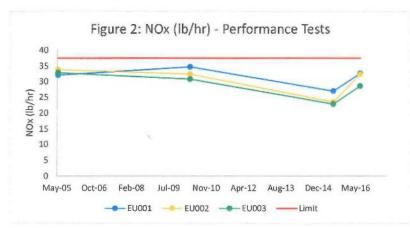
Test Date 6/1/2006	Test Method	EU001	lb/hr EU002			gm/hp.hr	
6/1/2006	Test Method	EU001	ELIONS	Walter Street Street			
6/1/2006			EU002	EU003	EU001	EU002	EU003
	[1]	33.5	32.0	26.9	5.86	5.60	4.70
5/29/2007	[1]	33.1	34.8	31.5	5.79	6.10	5.53
/17/2008 (retest)	[1]	30.5	30.5	17.7	5.67	5.89	5.19
5/20/2009	[1]	31.7	33.27	31.88	5.81	6.11	5.83
4/12-13/2010	7E	34.69	32.36	30.73	6.31	5.90	5.60
4/27/2011	[1]	37.16	36.38	35.44	6.79	6.85	6.61
4/25/2012	[1]	36.20	35.52	32.21	6.75	6.81	6.15
4/16/2013	[1]	32.91	34.59	30.74	6.23	6.58	5.87
5/21/2014	[1]	24.94	26.93	25.44	7.02	7.54	7.03
7/13-14/2015	7E	26.92	23.38	22.8	5.48	5.06	4.85
7/5-7/2016	7E	32.59	32.35	28.54	6.14	6.09	5.44
	5/20/2009 4/12-13/2010 4/27/2011 4/25/2012 4/16/2013 5/21/2014 7/13-14/2015	5/20/2009 [1] 4/12-13/2010 7E 4/27/2011 [1] 4/25/2012 [1] 4/16/2013 [1] 5/21/2014 [1] 7/13-14/2015 7E	5/20/2009 [1] 31.7 4/12-13/2010 7E 34.69 4/27/2011 [1] 37.16 4/25/2012 [1] 36.20 4/16/2013 [1] 32.91 5/21/2014 [1] 24.94 7/13-14/2015 7E 26.92	5/20/2009 [1] 31.7 33.27 4/12-13/2010 7E 34.69 32.36 4/27/2011 [1] 37.16 36.38 4/25/2012 [1] 36.20 35.52 4/16/2013 [1] 32.91 34.59 5/21/2014 [1] 24.94 26.93 7/13-14/2015 7E 26.92 23.38	5/20/2009 [1] 31.7 33.27 31.88 4/12-13/2010 7E 34.69 32.36 30.73 4/27/2011 [1] 37.16 36.38 35.44 4/25/2012 [1] 36.20 35.52 32.21 4/16/2013 [1] 32.91 34.59 30.74 5/21/2014 [1] 24.94 26.93 25.44 7/13-14/2015 7E 26.92 23.38 22.8	5/20/2009 [1] 31.7 33.27 31.88 5.81 4/12-13/2010 7E 34.69 32.36 30.73 6.31 4/27/2011 [1] 37.16 36.38 35.44 6.79 4/25/2012 [1] 36.20 35.52 32.21 6.75 4/16/2013 [1] 32.91 34.59 30.74 6.23 5/21/2014 [1] 24.94 26.93 25.44 7.02 7/13-14/2015 7E 26.92 23.38 22.8 5.48	5/20/2009 [1] 31.7 33.27 31.88 5.81 6.11 4/12-13/2010 7E 34.69 32.36 30.73 6.31 5.90 4/27/2011 [1] 37.16 36.38 35.44 6.79 6.85 4/25/2012 [1] 36.20 35.52 32.21 6.75 6.81 4/16/2013 [1] 32.91 34.59 30.74 6.23 6.58 5/21/2014 [1] 24.94 26.93 25.44 7.02 7.54 7/13-14/2015 7E 26.92 23.38 22.8 5.48 5.06

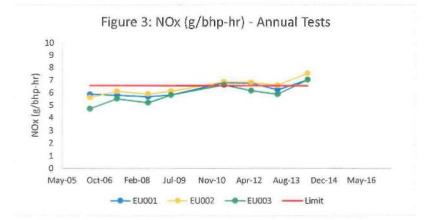
Notes:

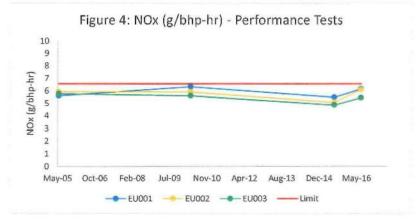
[1] ICAC Test Method for Periodic Monitoring using a portable electrochemical analyzer. Green shading indicates that the test result complies with the permit limit.

Yellow shading indicates that the test result exceeds the permit limit.











OMB No. 2060-0336, Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71)

GENERAL INFORMATION AND SUMMARY (GIS)

. Mailing Address and Contact Information
Facility name Grand Casino Hinckley
Mailing address: Street or P.O. Box 777 Lady Luck Drive
City Hinckley State MN ZIP 55037 -
Contact person: Bradley Kalk Title Vice President of Facilities
Telephone (320) 384 4907 _ Ext
Facsimile (<u>320</u>) <u>384</u> - <u>4857</u>
s. Facility Location
Temporary source?Yes _X_No Plant site location
City Hinckley State MN County Pine EPA Region 5
Is the facility located within:
Indian lands? XYESNO An offshore source in federal waters?YES X NO
Non-attainment area? YES _X_NO If yes, for what air pollutants?
Within 50 miles of affected State? X YES NO If yes, What State(s)?WI
. Owner
Mille Lacs Corporate Ventures Name <u>dba/Grand Casino Hinckley</u> Street/P.O. Box <u>777 Lady Luck Drive</u>
City Hinckley State MN ZIP 55037 -
Telephone (320) 523- 8882 Ext
). Operator
Name Same as owner Street/P.O. Box
City State ZIP
Telephone () Ext

Application Type			
Mark only one permit applic marked.	cation type and answer the sur	pplementary question app	ropriate for the type
Initial Permit Re	newal Significant Mod	X Minor Permit Mod	I(MPM)
Group Processing, MP	M Administrative	Amendment	
For initial permits, when did	operations commence?	_//	
For permit renewal, what is	the expiration date of current	permit?//	_
Applicable Requirement Su	ummary		
Mark the types of applicable	e requirements that apply:		
SIP	FIP/TIP	PSD	Non-attainment NSR
X Minor source NSR	Section 111	Phase I acid rain	Phase II acid rain
Stratospheric ozone	OCS regulations	X NESHAP	Sec. 112(d) MACT
Sec. 112(g) MACT	Early reduction of HAP	Sec 112(j) MACT	RMP [Sec.112(r)]
Section 129	NAAQS, increments or	visibility but for temporary	sources (This is rare)
Is the source subject to the	Deepwater Port Act?YI	ES X NO	
Has a risk management pla	an been registered?YES	X NO Agency	
Phase II acid rain application	on submitted?YES _X_NO	O If YES, Permitting Au	thority
Source-Wide PTE Restrict	ions and Generic Applicable	Requirements	
e and describe any emission	s-limiting requirements and/or	facility-wide "generic" app	plicable requirements.

H. Process Description

List processes, products, and SIC codes for the facility.

Process	Products	sic
Hotels and Motels		7011
Electricity generation		4911

I. Emission Unit Identification

Assign an emissions unit ID and describe each emissions unit at the facility. Control equipment and/or alternative operating scenarios associated with emissions units should by listed on a separate line. Applicants may exclude from this list any insignificant emissions units or activities.

Emissions Unit ID	Description of Unit
001	Non-emergency Peaking Generator Set
002	Non-emergency Peaking Generator Set
003	Non-emergency Peaking Generator Set
004	Emergency Generator
005	Emergency Generator

J. Facility Emissions Summary

Enter potential to emit (PTE) for the facility as a whole for each regulated air pollutant listed below. Enter the name of the single HAP emitted in the greatest amount and its PTE. For all pollutants, stipulations to major source status may be indicated by entering "major" in the space for PTE. Indicate the total actual emissions for fee purposes for the facility in the space provided. Applications for permit modifications need not include actual emissions information.

NOx 68.2 tons/yr VOC 1.9 tons/yr SO2 0.3 tons/yr PM-10 1.2 tons/yr CO 5.8 tons/yr Lead 0.0 tons/yr Total HAP 0.1 tons/yr Single HAP with greatest amount Benzene PTE 0.02 tons/yr Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE 12 [1] tons/yr C. Existing Federally-Enforceable Permits Permit number(s) PSD-ML-271150031-Permit type Construction Permitting authority EPA Region Permit number(s) 2010-02 Permit type Operation Permitting authority EPA Region Permit type Operation Permitting authority EPA Region Permits Emission Unit(s) Covered by General Permits
Total HAP tons/yr Single HAP with greatest amount Benzene
Single HAP with greatest amount Benzene PTE 0.02 tons/yr Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE 12 [1] tons/yr Existing Federally-Enforceable Permits Permit number(s) PSD-ML-271150031-Permit type Construction Permitting authority EPA Region Permit number(s) 2010-02 Permit type Operation Permitting authority EPA Region Permitting Authori
Total of regulated pollutants (for fee calculation), Sec. F, line 5 of form FEE 12 [1] tons/yr Existing Federally-Enforceable Permits PSD-ML-271150031- 2010-02 V-ML-2711500031- Permit number(s) 2016-01 Permit type Operation Permitting authority EPA Region Emission Unit(s) Covered by General Permits
PSD-ML-271150031- Permit number(s) 2010-02
PSD-ML-271150031- Permit number(s) 2010-02
Permit number(s) 2010-02
Emission Unit(s) Covered by General Permits
Emission unit(a) subject to general parmit. None
Emission unit(s) subject to general permit None
Check one: Application made Coverage granted
General permit identifier Expiration Date/
l. Cross-referenced Information
Does this application cross-reference information?YESX_NO (If yes, see instructions)

INSTRUCTIONS FOLLOW

[1] For calendar year 2014 emissions.



OMB No. 2060-0336, Approval Expires 05/31/2019

Federal Operating Permit Program (40 CFR Part 71) CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS (CTAC)

This form must be completed, signed by the "Responsible Official" designated for the facility or emission unit, and sent with each submission of documents (i.e., application forms, updates to applications, reports, or any information required by a part 71 permit).

A. Responsible Official			
Name: (Last) Kalk	_ (First)	Bradley	(MI)
Title Vice President of Facilities	3		
Street or P.O. Box 777 Lady Luck D	rive		
City Hinckley	State	MN ZIP	55037 -
Telephone (320) 384 - 4907 Ext		Facsimile (3	20) 384 - 4857
B. Certification of Truth, Accuracy an responsible official)	d Comple	teness (to be	signed by the
I certify under penalty of law, based on in inquiry, the statements and information of and complete.			
Name (signed)	le		
Name (typed) Bradley Kalk		Date:	11 102116